

## ABSTRACT

A new method is provided for the creation of a solder bump. Conventional methods are initially followed, creating a patterned layer of Under Bump Metal over the surface of a contact pad. A layer of photoresist is next deposited, this layer of photoresist is patterned and developed creating a resist mask having a T-shape opening aligned with the contact pad. This T-shaped opening is filled with a solder compound, creating a T-shaped layer of solder compound on the surface of the layer of UBM. The layer of photoresist is removed, exposing the created T-shaped layer of solder compound, further exposing the layer of UBM. The layer of UBM is etched using the T-shaped layer of solder compound as a mask. Reflow of the solder compound results in creating a solder ball.